

WAFER STYLE KNIFE GATE VALVE

The EK model knife gate is an uni-directional wafer valve designed for general industrial service applications. The design of the body and seat assures non clogging shut off on suspended solids in industries such as:

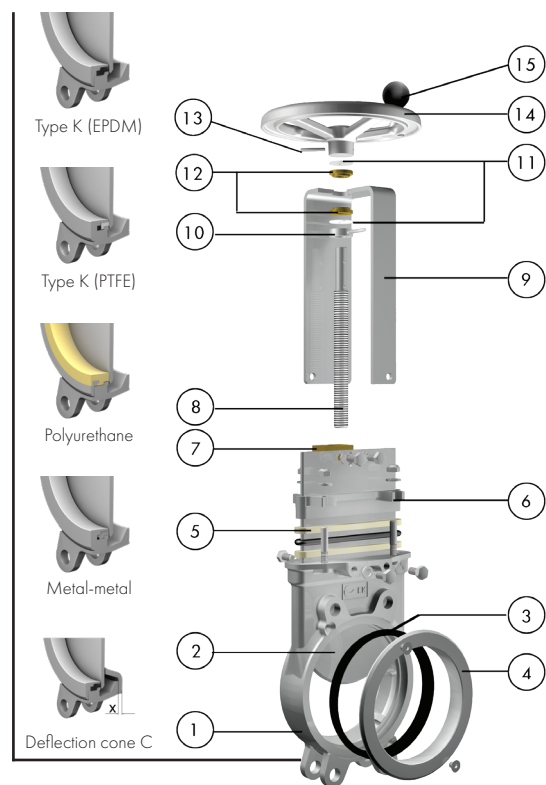
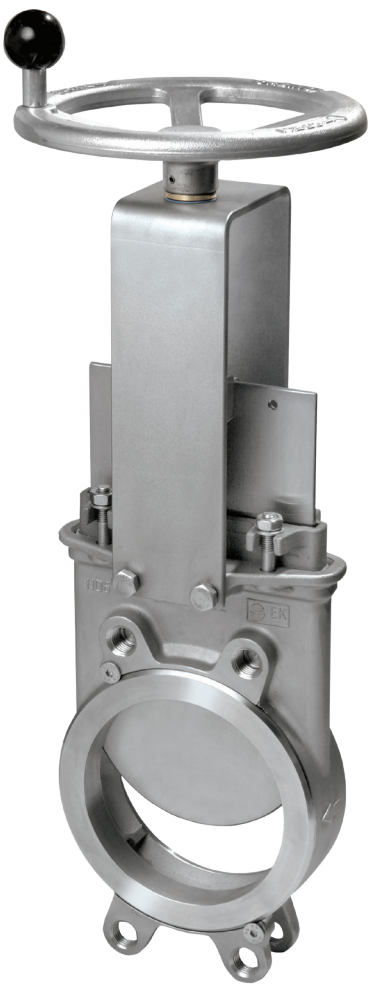
- Pulp and Paper
 - Power plants
 - Wastewater treatment plants
 - Chemical plants
- Food and Beverage
 - Bulk handling
 - Mining
 - etc.

Product description

- Uni-directional wafer type high-performance knife gate valve
- Size range of DN50-1200 (larger upon request). See Dimension Charts for pressure rating
- Non-rising stem
- Standard flange connection: EN-1092 PN 10 and ASME B16.5 (class 150). Others upon request
- Manual (handwheel, chainwheel, lever and bevel gear), pneumatic (single and double-acting), electric and hydraulic actuation options available
- For EU Directives and other Certificates, please see the document: Directives and Certificates Compliance - Knife Gate Valves - Catalogues and Datasheets

Features

- Wafer cast monoblock body with internal cast-in gate wedges and guides for tighter shut-off
- Full port design for greater flow capacity and minimal pressure drop
- Stainless steel gate polished both sides to avoid jamming and seat damage
- Cast stainless steel seat ring, easily replaceable, that mechanically locks the seal. Standard EPDM seat, also available in other materials (PTFE,...). Metal-to-metal seat and deflection cones available
- Long-life multiple graphite impreg. PTFE/aramid yarn combination with elastomeric core, EPDM o-ring, packing with easy access and adjustable gland follower. Wide range of materials available
- RAL-5015 blue epoxy-coating on all cast iron/carbon steel components
- Automated valves provided with gate guards in accordance with EU Safety Standards
- Other options: bonnets, V-ports, flush ports, special materials, fabricated valves, etc.
- Actuation accessories: limit & proximity switches, mechanical stops, positioners, solenoid valves, manual overrides, locking devices, fail safe systems, stem extensions and floor stands

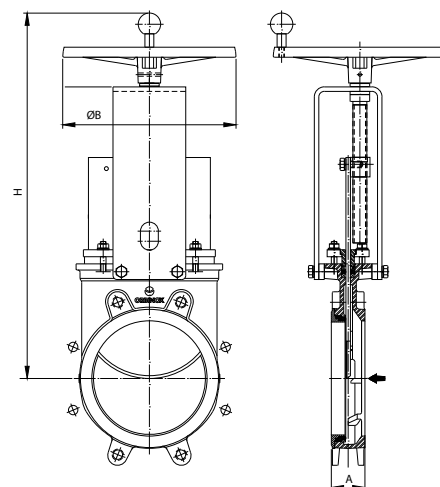


STANDARD PARTS LIST

Part		Description
1	Body	CF8M
2	Gate	AISI 316
3	Seat	EPDM
4	K ring	CF8M
5	Packing	Dynapack (Graphite impregnated PTFE and Aramid yarn combination with an elastomeric core) + EPDM O-ring
6	Gland follower	CF8M
7	Stem nut	Brass
8	Stem	Stainless Steel
9	Yoke	AISI 304
10	Axial fixing bush	AISI 304
11	Friction washer	PET + solid lubricant
12	Bushing	Bronze
13	Spring Pin	AISI 420 (ISO 8752)
14	Handwheel	Ø≤310: Aluminium (AISI 12); Ø≥410: EN-GJS400
15	Knob	Black bakelite

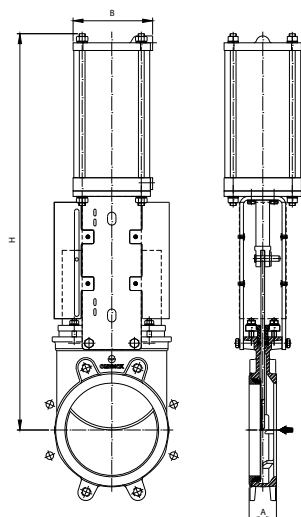
Handwheel Non-Rising Stem

DN	W. pressure	A	ØB	H	Weight (Kg)
50	16 bar	41	225	373	7
65	16 bar	41	225	400	8
80	16 bar	51	225	425	9
100	16 bar	51	225	466	11
125	16 bar	56	225	500	13
150	10 bar	60	225	551	15
200	10 bar	60	310	656	28
250	10 bar	69	310	756	40
300	6 bar	78	310	856	55
350	6 bar	78	410	1013	88
400	6 bar	89	410	1123	113
450	5 bar ¹	89	550	1226	148
500	4 bar ¹	114	550	1342	191
600	4 bar ¹	114	550	1546	267
700	2 bar	118	800	1723	405
750	2 bar	118	800	1855	455
800	2 bar	118	800	1934	512
900	2 bar	118	800	2168	630
1000	2 bar	118	800	2350	732

¹ 6 bar with duplex gate


Pneumatic Cylinder

DN	W. pressure	A	B	H	Connect.	Weight (Kg)
50	16 bar	41	115	412	1/4" G	8
65	16 bar	41	115	454	1/4" G	9
80	16 bar	51	115	497	1/4" G	11
100	16 bar	51	115	558	1/4" G	18
125	16 bar	56	140	632	1/4" G	19
150	10 bar	60	140	708	1/4" G	21
200	10 bar	60	175	872	1/4" G	38
250	10 bar	69	220	1042	3/8" G	56
300	6 bar	78	220	1192	3/8" G	73
350	6 bar	78	220	1379	3/8" G	110
400	6 bar	89	277	1568	3/8" G	158
450	5 bar ¹	89	277	1715	3/8" G	191
500	4 bar ¹	114	277	1882	3/8" G	237
600	4 bar ¹	114	277	2196	3/8" G	319
700	2 bar	118	277	2571	3/8" G	520
750	2 bar	118	382	2740	1/2" G	585
800	2 bar	118	382	2844	1/2" G	650
900	2 bar	118	382	3220	1/2" G	850
1000	2 bar	118	382	3496	1/2" G	1060

Actuator designed with 6 bar air supply and for standard catalogue differential pressure. ¹ 6 bar with duplex gate


Electric Actuator

DN	W. pressure	A	C	ØB	H	D	E	F	G	Torque (Nm)
50	16 bar	41	377	160	552	265	249	72	238	10
65	16 bar	41	404	160	579	265	249	72	238	10
80	16 bar	51	429	160	604	265	249	72	238	10
100	16 bar	51	470	160	645	265	249	72	238	10
125	16 bar	56	504	160	679	265	249	72	238	15
150	10 bar	60	560	160	730	265	249	72	238	20
200	10 bar	60	669	160	814	265	249	82	238	30
250	10 bar	69	799	160	944	265	249	82	238	45
300	6 bar	78	904	160	1044	265	249	82	238	40
350	6 bar	78	940	200	1115	283	254	128	248	70
400	6 bar	89	1044	200	1219	283	254	128	248	90
450	5 bar ¹	89	1172	200	1347	283	254	130	248	110
500	4 bar ¹	114	1280	200	1455	283	254	130	248	95
600	4 bar ¹	114	1565	315	1750	389	336	130	286	140
700	2 bar	118	1763	315	1948	389	336	202	285	120
750	2 bar	118	1882	315	2067	389	336	202	286	140
800	2 bar	118	1948	315	2133	389	336	202	286	180
900	2 bar	118	2157	400	2342	389	339	202	286	220
1000	2 bar	118	2350	400	2535	389	339	202	286	300
1200	2 bar	150	2732	500	2917	430	365	284	303	480

¹ 6 bar with duplex gate
